

26-003700US_seqlisting_rev1.txt

```

<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pV-wt

<400> 4
gaagcttaat acgactcact ataagtagaa acaagggtgt tttttcatat catttaaact 60
tcaccctgct ttgctgaat tcattcttct gcagg                               95

<210> 5
<211> 95
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pM-wt

<400> 5
gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaatga tatgaaaaaa 60
cacccttggt tctactgaat tcattcttct gcagg                               95

<210> 6
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pV-d5'

<400> 6
agcttaatac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
cttctgca                                         68

<210> 7
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pV-d5'

<400> 7
gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60

<210> 8
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pHgaNS

<400> 8
ccgaattctt aatacgactc actataagta gaaacaaggg tg                               42

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

<220>

```

<223> Primer for construction of plasmid pHgaNS

<400> 9
cctctagacg ctcgagagca aaagcaggtg 30

<210> 10
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for construction of plasmid pHgaNS

<400> 10
cacccugcuu uugcu 15

<210> 11
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 11
cacccugcuu uuacu 15

<210> 12
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 12
cacccugcuu cugcu 15

<210> 13
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 13
cacccuguuu cugcu 15

<210> 14
<211> 16
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 14
cacccuugcu uuugcu 16

<210> 15
<211> 15
<212> RNA

```

<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 15
cacccuguuu uuacu                                     15

<210> 16
<211> 15
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 16
cacccuguuu uugcu                                     15

<210> 17
<211> 16
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 17
cacccuugcu uuuacu                                     16

<210> 18
<211> 16
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 18
cacccuuguu uuuacu                                     16

<210> 19
<211> 16
<212> RNA
<213> Artificial Sequence

<220>
<223> Primer for generating point mutations in promoter sequence

<400> 19
cacccuuguu ucuacu                                     16

<210> 20

<400> 20
000

<210> 21
<211> 96
<212> DNA
<213> Artificial Sequence

<220>

```

<223> Primer for generating flanking sequences of NS RNA to fuse with the coding sequence of the CAT gene

<400> 21
gttcttttacg atgcgattgg gatatatcaa cgggtggata ccagtgatt tttttctcca 60
ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96

<210> 22

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for generating flanking sequences of NS RNA to fuse with the coding sequence of the CAT gene

<400> 22
actgcgatga gtggcagggc ggggcgtaat agat 34

<210> 23

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for construction of plasmid pIVACAT1

<400> 23
ctagatctat tacgccccgc cctgccactc atcgcagt 38

<210> 24

<400> 24
000

<210> 25

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for generating flanking sequences of NS RNA to fuse with the coding sequence of the CAT gene

<400> 25
ctagatctat tacgccccgc cctgccactc atcgcagt 38

<210> 26

<211> 97

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for construction of plasmid pIVACAT1

<400> 26
ctagacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg 60
gtataccacc gttgatatat cccaatcgca tcgtaaa 97

<210> 27

<211> 96

<212> DNA

<213> Artificial Sequence

26-003700US_seqlisting_rev1.txt

```

<220>
<223> Primer for construction of plasmid pIVACAT1

<400> 27
gttctttacg atgcgattgg gatatatcaa cggtggtata ccagtgatt tttttctcca 60
ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96

<210> 28
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NAv

<400> 28
cggaattctc ttcgagcgaa agcaggagtt 30

<210> 29
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NAv mut 2

<400> 29
catgggtgag tttcgaccaa aatctagatt ataaaatagg atacatatgc a 51

<210> 30

<400> 30
000

<210> 31
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NAv mut 2

<400> 31
aatgtatcct attttataat ctagattttg gtcgaaactc acc 43

<210> 32
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NA/BIP

<400> 32
ggccactagt aggtcgacgc cggc 24

<210> 33
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

```

<223> Primer for construction of pT3NA/BIP

<400> 33
gcgctggcca tcttgccagc ca 22

<210> 34
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NA/BIP-CAT

<400> 34
agaaaaaaat cactggg 17

<210> 35
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3NA/BIP-CAT

<400> 35
ttacgccccg ccctgcc 17

<210> 36
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3BIP-NA

<400> 36
gcgcatcgat aggtcgacgc cgg 23

<210> 37
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3BIP-NA

<400> 37
ggccatcgat ccaatgggta ttatttttctg gtttggattc atcttgccag ttggg 55

<210> 38
<211> 91
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for construction of pT3GP2/BIP-NA (L-primer)

<400> 38
atgactggat ccgctagcat ggccatcatt tatctcattc tcctgttcac agcagtgaga 60
ggggaccaga tagaagaatc gcaaaaccag c 91

<210> 39
<211> 39

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for construction of pT3GP2/BIP-NA (M-primer)

 <400> 39
 atgacagaat tcgtcgactt atctattcac tacagaaag 39

 <210> 40
 <211> 53
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for construction of pT3GP2/BIP-NA

 <400> 40
 gcgcgaagac gcagcaaaag caggagttaa agctagcatg gccatcattt atc 53

 <210> 41
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for construction of pT3HGP2/BIP-NA

 <400> 41
 cgatggatcc gctagcttgg aatcgatggg ggtgtatc 38

 <210> 42
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for construction of pT3HGP2/BIP-NA

 <400> 42
 atcgatgaat tcgtcgactc agatgcatat tctgcac 37

 <210> 43
 <211> 51
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for construction of pT3HGP2/BIP-NA

 <400> 43
 atgactgtcg acccatggaa gtcaatcgat gttatgttaa accaattcca c 51

 <210> 44
 <211> 28
 <212> DNA
 <213> Influenza A virus

 <400> 44
 gcgcgaattc tcttcgagca aaagcagg 28

 <210> 45
 <211> 18

<212> DNA
 <213> Influenza virus

 <220>
 <223> Position 243-226 of the NA gene

 <400> 45
 agagatgaat tgccggtt 18

 <210> 46
 <211> 6
 <212> PRT
 <213> Human Immunodeficiency Virus-1 (HIV-1)

 <400> 46
 Glu Leu Asp Lys Trp Ala
 1 5

 <210> 47
 <211> 12
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 47
 ccugcuuuyg cu 12

 <210> 48
 <211> 22
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 48
 aguagaaaca aggguguuuu uu 22

 <210> 49
 <211> 53
 <212> RNA
 <213> Influenza A virus

 <400> 49
 aguagaaaca aggguguuuu uucauaucau uaaaacuca ccugcuuuu gcu 53

 <210> 50
 <211> 53
 <212> RNA
 <213> Influenza A virus

 <400> 50
 agcaaaagca gggugaagu uaaugauau gaaaaaacac ccuuguuucu acu 53

 <210> 51
 <211> 30
 <212> RNA
 <213> Influenza A virus

 <400> 51

26-003700US_seqlisting_rev1.txt

agaucuaauua aacuucaccc ugcuuuugcu 30

<210> 52
 <211> 43
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Primer for generate mutagenesis sequence within viral gene segments

<400> 52
 aguagaaaca aggguguuuu uucagaucua uuacgccccg ccc 43

<210> 53
 <211> 15
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Primer for construction of WSN NA gene in pT3NAv plasmid

<400> 53
 aguagaaaca aggag 15

<210> 54
 <211> 14
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Primer for construction of WSN NA gene in pT3NAv plasmid

<400> 54
 aguagaaaca agag 14

<210> 55
 <211> 12
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Primer for construction of WSN NA gene in pT3NAv plasmid

<400> 55
 ccugcuuucg cu 12

<210> 56
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 56
 ccatgggtga gtttcgacca aaatctagat tataaaatag gatacatatg cag 53

<210> 57
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 57

cctgcagaag aatga

15

<210> 58

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Primer for generate mutagenesis sequence within viral gene segments

<400> 58

gugguauacc cagugauuuu uuucuccauu augucuuugu caccucugcuu uugcu

55

<210> 59

<211> 53

<212> RNA

<213> Artificial Sequence

<220>

<223> Primer for construction of WSN NA gene in pT3NAv plasmid

<400> 59

cugcagaugu auccuauuuu auaaucuagg uuuggucga aggacaccca ugg

53

<210> 60

<400> 60

000

<210> 61

<211> 53

<212> RNA

<213> Artificial Sequence

<220>

<223> Primer for construction of WSN NA gene in pT3NAv plasmid

<400> 61

cugcauugu auccuauuuu auaaucuaga uuuggucga aacucaccca ugg

53

<210> 62

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 62

ctagacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aatcactggg 60
tataccaccg ttgatatatc ccaatcgcat cgtaaa 96

<210> 63

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for construction of pT3NAv

<400> 63

ccaagcttat taaccctcac taaaagtaga aacaaggagt tt

42